

Divide 2-digits by 1-digit (1)

- 1 Rosie is working out $93 \div 3$ using a place value chart.

Tens	Ones
10 10 10	1
10 10 10	1
10 10 10	1

a) Talk about Rosie's method with a partner.

b) Complete the division.

$$93 \div 3 = \boxed{31}$$

- 2 Use place value counters to complete the divisions.

a) $66 \div 3 = \boxed{22}$

d) $48 \div 4 = \boxed{12}$

b) $86 \div 2 = \boxed{43}$

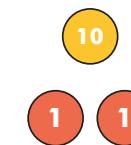
e) $\boxed{13} = 39 \div 3$

c) $50 \div 5 = \boxed{10}$

f) $84 \div 4 = \boxed{21}$

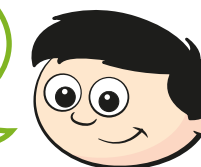
- 3 Dexter is working out $56 \div 4$ using a place value chart.

T	O
10	1
10	1
10	1
10	1



a)

I can't do it because I have counters left over.



Do you agree with Dexter? No

Explain your answer.

He can exchange 1 ten for 10 ones.

b) Work out $56 \div 4$ using place value counters.

$$56 \div 4 = \boxed{14}$$

- 4 Use place value counters to complete the divisions.

a) $72 \div 3 = \boxed{24}$

d) $48 \div 6 = \boxed{8}$

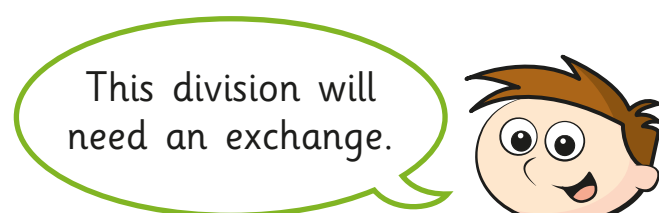
b) $92 \div 4 = \boxed{23}$

e) $\boxed{15} = 45 \div 3$

c) $65 \div 5 = \boxed{13}$

f) $64 \div 4 = \boxed{16}$

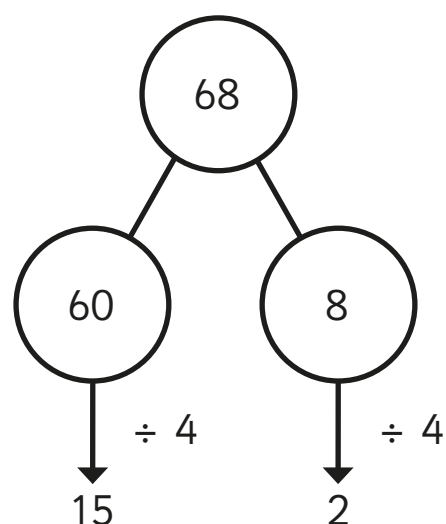
- 5 Teddy is working out $57 \div 3$



How does Teddy know this? Talk about it with a partner.



- 6 Amir is working out $68 \div 4$



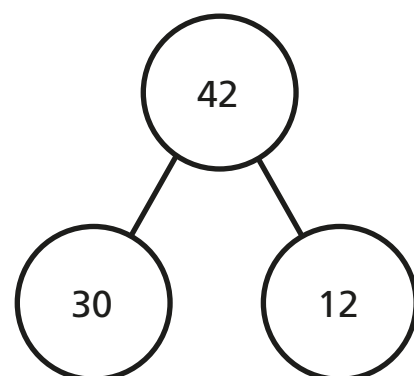
$$68 \div 4 = 17$$

Talk about Amir's method with a partner.

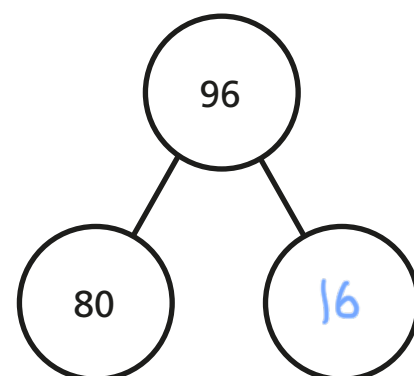


- 7 Use Amir's method to complete these calculations.

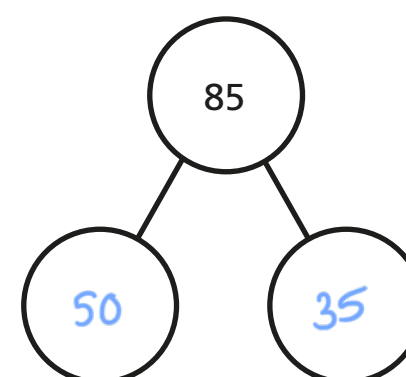
a) $42 \div 3 =$ 14



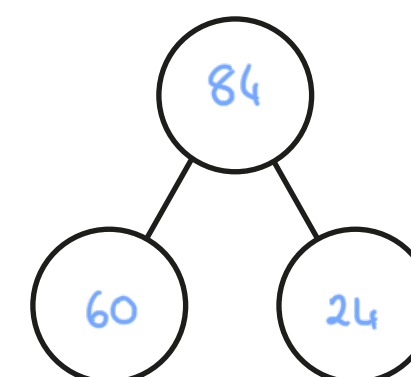
b) $96 \div 4 =$ 24



c) $85 \div 5 =$ 17



d) $84 \div 6 =$ 14



- 8 Kim has 92 beads.
She wants to share them equally between 4 friends.
How many beads will each friend get?

23

- 9 Write $<$, $>$ or $=$ to make the statements correct.

$96 \div 8$ = $72 \div 6$

$95 \div 5$ < $63 \div 3$

$51 \div 3$ > $64 \div 4$

$98 \div 7$ < $95 \div 5$



Divide 2-digits by 1-digit (2)

- 1 Whitney is working out $49 \div 4$ using a place value chart.

Tens	Ones
10	1 1
10	1 1
10	1 1
10	1 1

1

- a) Talk about Whitney's method with a partner.
b) Why is there one counter left over?

It is a remainder.

- c) Complete the division.

$$49 \div 4 = 12 \text{ r } 1$$

- d) Use place value counters to complete the divisions.

$$50 \div 4 = 12 \text{ r } 2 \qquad 51 \div 4 = 12 \text{ r } 3$$

What do you notice?

- 2 Complete the divisions.

$$\text{a) } 47 \div 3 = 15 \text{ r } 2$$

$$\text{b) } 26 \div 5 = 5 \text{ r } 1$$

$$\text{c) } 89 \div 4 = 22 \text{ r } 1$$

$$\text{d) } 32 \div 5 = 6 \text{ r } 2$$

$$\text{e) } 49 \div 6 = 8 \text{ r } 1$$

$$\text{f) } 47 \div 4 = 11 \text{ r } 3$$

$$\text{g) } 74 \div 3 = 24 \text{ r } 2$$

$$\text{h) } 81 \div 7 = 11 \text{ r } 4$$

- 3 Complete the divisions.

$$\text{a) } 36 \div 4 = 9$$

$$37 \div 4 = 9 \text{ r } 1$$

$$38 \div 4 = 9 \text{ r } 2$$

$$39 \div 4 = 9 \text{ r } 3$$

$$40 \div 4 = 10$$

$$\text{c) } 45 \div 3 = 15$$

$$46 \div 3 = 15 \text{ r } 1$$

$$47 \div 3 = 15 \text{ r } 2$$

$$48 \div 3 = 16$$

$$49 \div 3 = 16 \text{ r } 1$$

$$\text{b) } 70 \div 5 = 14$$

$$71 \div 5 = 14 \text{ r } 1$$

$$72 \div 5 = 14 \text{ r } 2$$

$$73 \div 5 = 14 \text{ r } 3$$

$$74 \div 5 = 14 \text{ r } 4$$

$$\text{d) } 92 \div 4 = 23$$

$$91 \div 4 = 22 \text{ r } 3$$

$$90 \div 4 = 22 \text{ r } 2$$

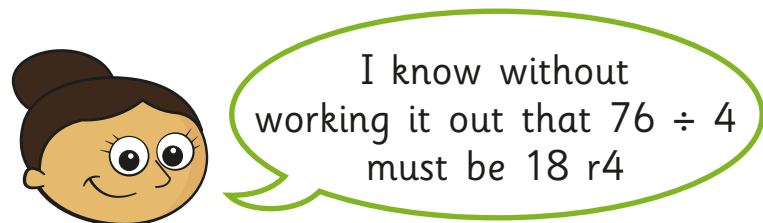
$$89 \div 4 = 22 \text{ r } 1$$

$$88 \div 4 = 22$$



- 4 Dora has been working out some divisions.

$$\begin{array}{l} 72 \div 4 = 18 \\ 73 \div 4 = 18 \text{ r}1 \\ 74 \div 4 = 18 \text{ r}2 \\ 75 \div 4 = 18 \text{ r}3 \end{array}$$



- a) Why does Dora think this?

She has spotted a pattern.

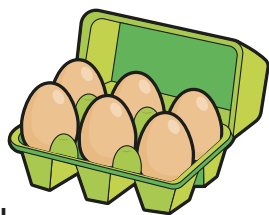
- b) Explain why Dora is wrong.

You can't have a remainder of 4 when dividing by 4

- 5 Eggs come in boxes of 6

Annie has 75 eggs.

She wants to know how many boxes she can fill.



- a) Complete the division to work it out.

$$\boxed{75} \div \boxed{6} = \boxed{12} \text{ r } \boxed{3}$$




- b) What does the remainder represent?

Talk about it with a partner.

- c) Complete the sentence.

Annie can fill $\boxed{12}$ boxes with $\boxed{3}$ eggs left over.

- 6 Jack has these bulbs.

	Daffodils 49
	Tulips 63
	Crocuses 98

Equal numbers of each bulb are put into 4 tubs.

How many of each bulb will be in each tub?

Daffodils $\boxed{12}$ Tulips $\boxed{15}$ Crocuses $\boxed{24}$

How many of each bulb will be left over?

Daffodils $\boxed{1}$ Tulips $\boxed{3}$ Crocuses $\boxed{2}$

How many tubs could Jack use so that there are no bulbs left over?

Divide 3-digits by 1-digit



- 1 Jack is working out $844 \div 4$ using a place value chart.

H	T	O
100 100	10	1
100 100	10	1
100 100	10	1
100 100	10	1

- a) Talk about Jack's method with a partner.
b) Complete the division.

$$844 \div 4 = \boxed{211}$$

- 2 Use Jack's method to work out these divisions.

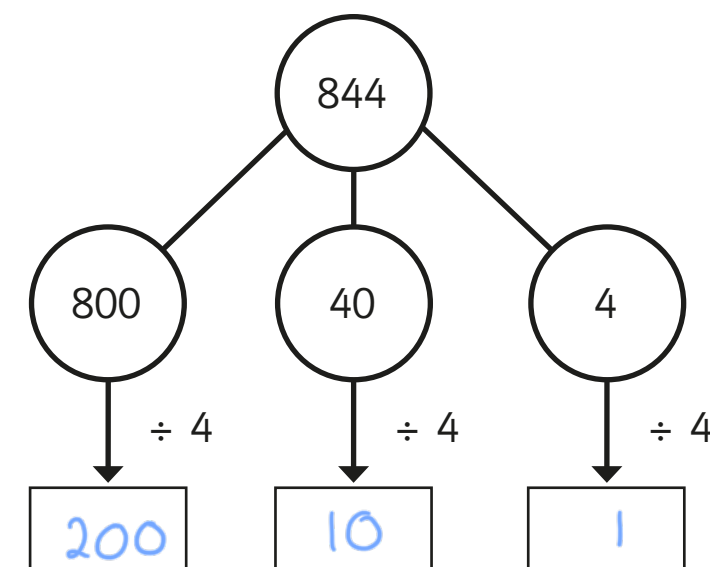
a) $525 \div 5 = \boxed{105}$

c) $840 \div 8 = \boxed{105}$

b) $636 \div 6 = \boxed{106}$

d) $903 \div 3 = \boxed{301}$

- 3 Eva is working out $844 \div 4$ using a part-whole model.



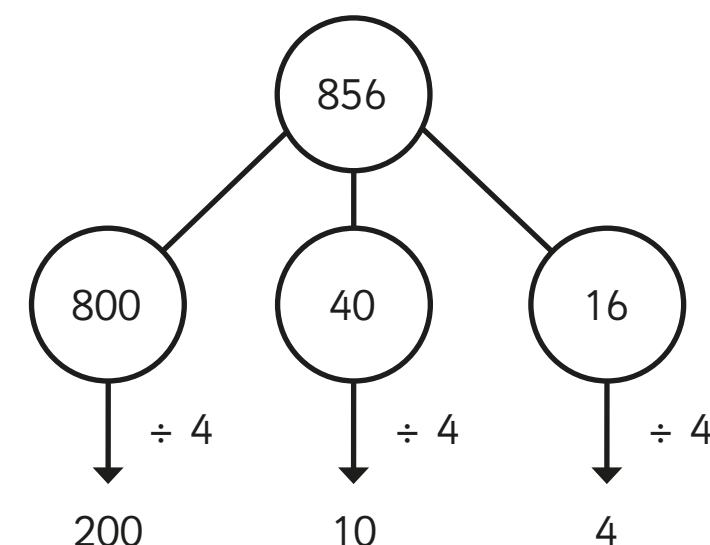
Complete Eva's method.

$$844 \div 4 = \boxed{211}$$

- 4 A ball of string is 848 cm long.
It is cut into 4 equal pieces.
What is the length of one piece of string?

$$\boxed{212\text{cm}}$$

- 5 Whitney is using flexible partitioning to divide a 3-digit number.



Could Whitney have partitioned her number another way?



Use Whitney's method to work out these divisions.

a) $585 \div 5 =$ 117

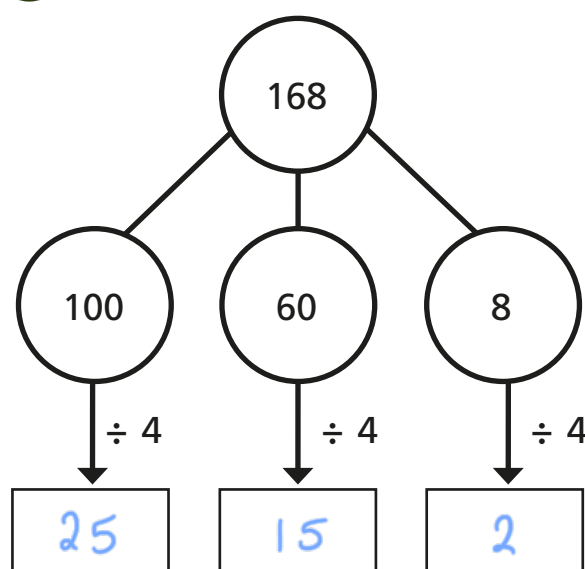
c) $648 \div 4 =$ 162

b) $672 \div 6 =$ 112

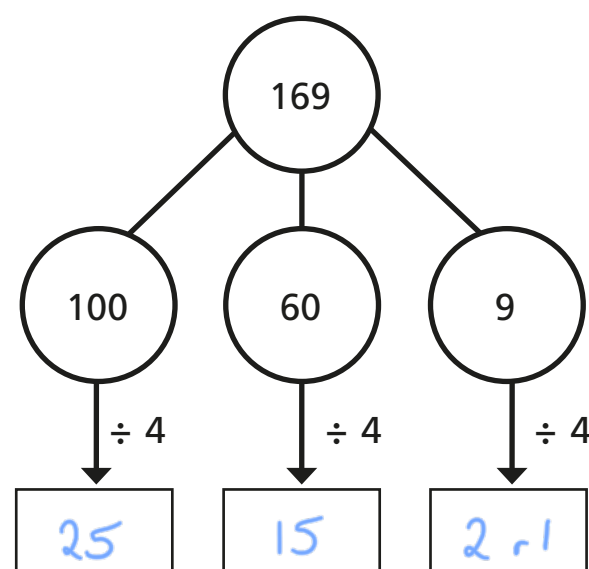
d) $847 \div 7 =$ 121



6 Complete the part-whole models and divisions.



$168 \div 4 =$ 42



$169 \div 4 =$ 42 r 1

What is the same and what is different about the calculations?
Talk about it with a partner.



7 Complete the divisions.

a) $258 \div 6 =$

c) $864 \div 4 =$

b) $623 \div 5 =$

d) $824 \div 3 =$

8

Eva has a piece of ribbon.



The ribbon measures 839 cm long.

How much ribbon would be left over if she cuts it into:

a) 4 equal pieces

3 cm

b) 6 equal pieces

5 cm

c) 8 equal pieces

7 cm

Can Eva cut the ribbon into equal pieces with no ribbon left over?

Yes

Explain your answer. *839 pieces each 1 cm long.*

9

Use 15 counters and a place value chart.

a) Can you make a number that is divisible by 3?

yes

b) Can you make a number that has a remainder of 1 when divided by 3?

no

c) Can you make a number that has a remainder of 2 when divided by 3?

no

What do you notice? Talk about your findings with a partner.



Divide 4-digits by 1-digit



- 1 a) Circle the groups of 3 to help you complete the sentences and calculation.

The first step has been done for you.

Th	H	T	O
1,000 1,000	100 100	10 10	1 1
1,000 1,000	100 100	10	1 1
1,000 1,000	100 100		1 1
1,000 1,000	100 100		1 1
	100		

		1	3	1	2
3	3	9	3	6	

There is 1 group of 3 thousands.

There are 3 groups of 3 hundreds.

There is 1 group of 3 tens.

There are 2 groups of 3 ones.

$$3,936 \div 3 = 1,312$$

- b) Use the place value chart to work out $8,404 \div 4$

Th	H	T	O
4	4		4
4			

		2	1	0	1
4	8	4	0	4	

$$8,404 \div 4 = 2,101$$

- 2 Use the place value charts to work out the divisions.

a) $8,532 \div 2 = 4,266$

Th	H	T	O
1,000 1,000	100 100	10 10	1 1
1,000 1,000	100 100	10	1 1
1,000 1,000	100	10 10	1 1
1,000 1,000		10 10	1 1
		10 10	1 1
		10 10	1 1
		10 10	

		4	2	6	6
2	8	5	3	2	

b) $5,296 \div 4 = 1,324$

Th	H	T	O

		1	3	2	4
4	5	2	9	6	

c) $6,078 \div 6 = 1,013$

Th	H	T	O

		1	0	1	3
6	6	0	7	8	

3 Complete the divisions.

a)

		0	7	1	2	
	5	3	5	6	0	

d)

		1	6	3	1	
	6	9	7	8	6	

b)

		0	3	0	4	
	9	2	7	3	6	

e)

		1	5	6	1	
	3	4	6	8	3	

c)

		1	6	3	1	
	4	6	5	2	4	

f)

		2	0	7	9	
	1	2	0	7	9	

Could you have calculated the answer to part f) more efficiently?

4 Work out the values of a , b and c .

9,415						
a	a	a	a	a	a	a

$$a = 1,345$$

b	b	b	b	b	b	b	b
5,328							

$$b = 666$$

120	120	120	120
c	c	c	c

$$c = 80$$

5 Find the missing digits.

a)

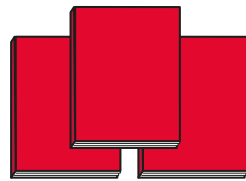
		2	2	4	1
	4	8	9	6	4

b)

		3	2	6	2
	2	6	5	2	4

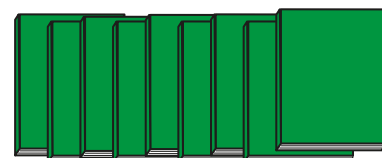
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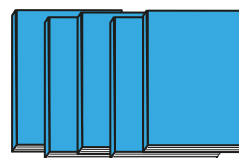
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